The ‘fancyvrb’ package
Fancy Verbatims in \LaTeX

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Abstract

This package provides very sophisticated facilities for reading and writing verbatim \LaTeX code. Users can perform common tasks like changing font family and size, numbering lines, framing code examples, colouring text and conditionally processing text.

Report bugs to hvoss@tug.org

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Contents

I Package `fancyvrb` 4

1 Introduction 4

2 Verbatim material in footnotes 4

3 Improved verbatim commands 5

4 Verbatim environments 5

4.1 Customization of verbatim environments 5

4.1.1 Comments 5

4.1.2 Initial characters to suppress 6

4.1.3 Customization of formatting 6

4.1.4 Changing individual line formatting 7

4.1.5 Fonts 7

4.1.6 Types and characteristics of frames 8

4.1.7 Label for the environment 10

4.1.8 Line numbering 11

4.1.9 Selection of lines to print 13

4.1.10 Spaces and tab characters 14

4.1.11 Space between lines 15

4.1.12 Vertical space before and after 15

4.1.13 Escape characters for inserting commands 16

4.1.14 Margins 17

4.1.15 Overfull box messages 18

4.1.16 Page breaks 18

4.1.17 Catcode characters 18

4.1.18 Active characters 18

4.1.19 Reference label 19

4.2 Different kinds of verbatim environments 19

4.2.1 Verbatim environment 19

4.2.2 BVerbatim environment 19

4.2.3 LVerbatim environment 20

4.2.4 Personalized environments 20

5 Saving and restoring verbatim text and environments 21
6  Writing and reading verbatim files  23
7  Automatic pretty printing  24
8  Known problems  24
9  Conclusion  24

II  Package fancyvrb-ex  25
10 Example environment  25
11 CenterExample environment  26
12 SideBySideExample environment  26
Part I
Package fancyvrb

1 Introduction

'fancyvrb' is the development of the verbatim macros of the 'fancybox' package, Section 11 of [1]. It offers six kinds of extended functionality, compared to the standard \LaTeX verbatim environment:

1. verbatim commands can be used in footnotes,
2. several verbatim commands are enhanced,
3. a variety of verbatim environments are provided, with many parameters to change the way the contents are printed; it is also possible to define new customized verbatim environments,
4. a way is provided to save and restore verbatim text and environments,
5. there are macros to write and read files in verbatim mode, with the usual versatility,
6. you can build example environments (showing both result and verbatim text), with the same versatility as normal verbatim.

The package works by scanning a line at a time from an environment or a file. This allows it to pre-process each line, rejecting it, removing spaces, numbering it, etc, before going on to execute the body of the line with the appropriate catcodes set.

2 Verbatim material in footnotes

After a \VerbatimFootnotes macro declaration (to use after the preamble), it is possible to put verbatim commands and environments (the \LaTeX or 'fancyvrb' ones) in footnotes, unlike in standard \LaTeX:

\begin{verbatim}
\VerbatimFootnotes
\footnote{\verb+_Yes!+_}
\end{verbatim}

We can put verbatim\footnote{\verb+_Yes!+_} text in footnotes.

We can put verbatim\footnote{\verb+_Yes!+_} text in footnotes.
3 Improved verbatim commands

The \DefineShortVerb macro allows us to define a special character as an abbreviation to enclose verbatim text and the \UndefineShortVerb macro suppresses the special meaning of the specified character (the same functionalities are provided in the \TeX 'shortvrb' package):

\begin{verbatim}
\DefineShortVerb{\}
We can simply write \Verb+_verbatim+_material using a single |_delimiter_|. And we can _change_ the character.
\end{verbatim}

\begin{verbatim}
\UndefineShortVerb{\}
\end{verbatim}

\begin{verbatim}
\DefineShortVerb{+}
And we can +_change+ the character.
\end{verbatim}

To make matters more versatile, we can nominate escape characters in verbatim text (using the \Verb macro or with a 'shortverb' character defined), to perform formatting or similar tasks, using the commandchars parameter as shown for environments in paragraph 4.1.13.

4 Verbatim environments

Several verbatim environments are available, each with a lot of parameters to customize them. In the following examples we use the Verbatim environment, which is the equivalent of the standard verbatim. The parameters can be set globally using the \fvset macro or in an optional argument after the start of the environment\footnote{For clarification in this paper, note that we generally indent each verbatim line with two spaces.}.

\begin{Verbatim}
First verbatim line.
Second verbatim line.
\end{Verbatim}

4.1 Customization of verbatim environments

The appearance of verbatim environments can be changed in many and varied ways; here we list the keys that can be set.

4.1.1 Comments

commentchar (character) : character to define comments in the verbatim code, so that lines starting with this character will not be printed (Default: empty).

\footnote{This mechanism uses the \texttt{keyval} package from the standard \TeX graphics distribution, written by David Carlisle.}
4.1 Customization of verbatim environments

Take care to a special effect if the comment character is not the first non blank one: it is because this character is in fact managed as the \TeX comment one, that is to say that it gobble the newline character too. So, in this case, the current line will be joined with the next one and, more, the last one will be lost if it contain a comment, as ‘fancyvrb’ print a line only after finding it end character, which will never occured in this case...

4.1.2 Initial characters to suppress

gobble (integer) : number of characters to suppress at the beginning of each line (up to a maximum of 9), mainly useful when environments are indented (Default: empty — no character suppressed).

4.1.3 Customization of formatting

formatcom (command) : command to execute before printing verbatim text (Default: empty).

formatcom* (command) : add definition to an existing one
4.1.4 Changing individual line formatting

The macro \FancyVerbFormatLine defines the way each line is formatted. Its default value is \def\FancyVerbFormatLine#1{#1}, but we can redefine it at our convenience (FancyVerbLine is the name of the line counter):

\begin{Verbatim}
\renewcommand{\FancyVerbFormatLine}[1]{% 
\makebox[0cm][l]{\Rightarrow}#1}
\end{Verbatim}

4.1.5 Fonts

fontfamily (family name) : font family to use. tt, courier and helvetica are pre-defined (Default: tt).

We can guess that PostScript fonts are available

\begin{Verbatim}
\renewcommand{\FancyVerbFormatLine}[1]{% 
\ifodd\value{FancyVerbLine}\% 
\MakeUppercase{#1}\else#1\fi}
\end{Verbatim}

fontsizes (font size) : size of the font to use (Default: auto — the same as the current font). If you use the ‘relsize’ package too, you can require a
4.1 Customization of verbatim environments

change of the size proportional to the current one (for instance: \texttt{fontsize=\relsize{-2}}).

We can guess that PostScript fonts are available

```
\begin{Verbatim}[fontsize=\small]
  Verbatim line.
\end{Verbatim}
```

fontshape (font shape) : font shape to use (Default: auto — the same as the current font).

We can guess that PostScript fonts are available

```
\begin{Verbatim}[fontfamily=courier, fontshape=it]
  Verbatim line.
\end{Verbatim}
```

fontseries (series name) : \LaTeX{} font ‘series’ to use (Default: auto — the same as the current font).

We can guess that PostScript fonts are available

```
\begin{Verbatim}[fontfamily=courier, fontseries=b]
  Verbatim line.
\end{Verbatim}
```

4.1.6 Types and characteristics of frames

frame (none∣leftline|topline|bottomline|lines|single) : type of frame around the verbatim environment (Default: none — no frame). With leftline and single modes, a space of a length given by the \LaTeX{} \texttt{\fboxsep} macro is added between the left vertical line and the text.

Problem at the top of a page...
framerule (dimension) \(\) width of the rule of the frame (Default: 0.4pt if framing specified).

framesep (dimension) \(\) width of the gap between the frame and the text (Default: \fboxsep).

rulecolor (color command) \(\) color of the frame rule, expressed in the standard \LaTeX{} way (Default: black).
4.1 Customization of verbatim environments

fillcolor (color command) : color used to fill the space between the frame and
the text (its thickness is given by framesep) (Default: none — no color).

\begin{Verbatim}[frame=single,framerule=1mm,framesep=3mm,rulecolor=\color{red},fillcolor=\color{yellow}]
Verbatim line.
\end{Verbatim}

4.1.7 Label for the environment

label ({{string}string}) : label(s) to print on top, bottom or both frame lines
of the environment to describe it content (Default: empty — no label). If
the label(s) contains special characters, as a comma or an equal sign, it
must be put inside a group. If only one string is given, it will be used for
both top and bottom lines (if the two are printed), but if an optional first
label is given too, this one will be used for the top line and the second
one for the bottom line. Note also that, if another value than topline,
bottomline, lines or single is used for the frame parameter, the label(s)
will not be printed.

\begin{Verbatim}[frame=single,framesep=4mm,label=\fbox{\Large\emph{The code}}]
First verbatim line.
Second verbatim line.
\end{Verbatim}

labelposition (none\|topline\|bottomline\|all) : position where to print the label
if one is defined, which must be coherent with the kind of frame cho-
sen (Default: none if the label is empty, topline if one label is defined
and all if two are defined). Of course, some incompatible options (like
frame=topline,labelposition=bottomline) will not print the label.

\begin{Verbatim}
\fvset{gobble=2}
\begin{Verbatim}[frame=single,label=My text]
First verbatim line.
Second verbatim line.
\end{Verbatim}
\end{Verbatim}
4.1.8 Line numbering

numbers (none|left|right) : numbering of the verbatim lines (Default: none — no numbering). If requested, this numbering is done outside the verbatim environment.
4.1 Customization of verbatim environments

numbersep (dimension) : gap between numbers and verbatim lines (Default: 12pt).

\begin{Verbatim}[gobble=2,
  numbers=left,numbersep=2pt]
  First verbatim line.
  Second verbatim line.
\end{Verbatim}

firstnumber (auto∣last∣integer) : number of the first line (Default: auto — numbering starts from 1). last means that the numbering is continued from the previous verbatim environment. If an integer is given, its value will be used to start the numbering.

\begin{Verbatim}[firstnumber=last]
  Verbatim line.
\end{Verbatim}

\begin{Verbatim}[firstnumber=100]
  Verbatim line.
\end{Verbatim}

stepnumber (integer) : interval at which line numbers are printed (Default: 1 — all lines are numbered).

\begin{Verbatim}[gobble=2,numbers=left,
  numbersep=3pt,stepnumber=2]
  First verbatim line.
  Second verbatim line.
  Third verbatim line.
\end{Verbatim}

The macro \theFancyVerbLine defines the typesetting style of the numbering, and the counter used is FancyVerbLine:

\begin{Verbatim}
  \fvset{gobble=2,\theFancyVerbLine=\textbf,\numberedtrue,\numbers=left,\numbersep=3pt}
  \begin{Verbatim}[firstnumber=last]
    Verbatim line.
  \end{Verbatim}
  \begin{Verbatim}[firstnumber=100]
    Verbatim line.
  \end{Verbatim}
\end{Verbatim}
numberblanklines (boolean) : to number or not the empty lines (really empty or containing blank characters only) (Default: true — all lines are numbered).

4.1.9 Selection of lines to print

firstline (integer) : first line to print (Default: empty — all lines from the first are printed).

lastline (integer) : last line to print (Default: empty — all lines until the last one are printed).
4.1 Customization of verbatim environments

Instead of specifying a first line at which to start printing a range of lines, you can define a start string; the start of the range is the first line that exactly equals the string. (The comparison is made before any characters are gobbled off the front of the line.) Similarly for a stop string. You can mix line-numbers and strings, e.g. start at first line, and end at a stop string. Specifying the strings is a bit klunky. Initially you must define the strings with \newcommand* as in:

```
\newcommand*{FancyVerbStartString}{FROM}
\newcommand*{FancyVerbStopString}{TO}
```

```
\begin{Verbatim}
\FancyVerbStartString
\FancyVerbStopString
\end{Verbatim}
```

To redefine the strings, you must use \renewcommand*.

With the setting lastline= or lastline=0 nothing will be printed.

```
\begin{Verbatim}[frame=none,lastline=]
```

4.1.10 Spaces and tab characters

showspaces (boolean) : print a special character representing each space (Default: false — spaces not shown).

```
\begin{Verbatim}[showspaces,showtabs]
```

In practice, all verbatim environments, \VerbatimInput, and \Verb have a * variant, which sets showspaces=true:
There are also some parameters to determine the way tab characters are interpreted (using tabs is in fact a rather old-fashioned style of coding):

- **showtabs** (boolean): explicitly show tab characters (*Default: false* — tab characters not shown).

- **obeytabs** (boolean): position characters according to the tabs (*Default: false* — tab characters are added to the current position).

- **tabsize** (integer): number of spaces given by a tab character (*Default: 8*).

Pay attention that the behaviour of the environment/command from the \texttt{LATEX} kernel is different. In \texttt{LATEX} Tabs are printed as visible space, but with \texttt{fancyvrb} as spaces or with showtabs as visible Tab.

### 4.1.11 Space between lines

**baselinestretch** (auto|dimension): value to give to the usual ‘baselinestretch’ \texttt{LATEX} parameter (*Default: auto* — its current value just before the verbatim command).

### 4.1.12 Vertical space before and after

**vspace** (dimension): value to give to the usual vertical list space. (*Default: \texttt{topsep} — its current value just before the verbatim command).*
4.1 Customization of verbatim environments

A line before Verbatim

\begin{verbatim} [frame=lines,label=foo]
First verbatim line.
Second verbatim line.
\end{verbatim}

A line after Verbatim

A line before Verbatim

\begin{verbatim} [frame=lines,label=foo,vspace=0pt]
First verbatim line.
Second verbatim line.
\end{verbatim}

A line after Verbatim

4.1.13 Escape characters for inserting commands

commandchars (three characters) : characters which define the character which starts a macro and marks the beginning and end of a group; thus lets us introduce escape sequences in verbatim code. Of course, it is better to choose special characters which are not used in the verbatim text! (Default: empty).

Escaping of ] is needed to prevent ]] at the end which is not allowed. Alternatively you can write commandchars=\{\} or commandchars=+{{}}. Escaping is needed for all active characters. Pay attention that you do not use characters which are used in the code of fancyvrb itself, e.g. <>

Using this way, it is also possible to put labels to be able, later, to make reference to some lines of the verbatim environments:
As I previously shown line 2, it is...

As I previously shown line\ref{vrb:Important}, it is...

4.1.14 Margins

\texttt{xleftmargin} (dimension) : indentation to add at the start of each line (\textit{Default: 0pt} — no left margin).

\begin{Verbatim}[commandchars=\\{, numbers=left, numbersep=2pt]
First verbatim line.
Second line.
Third verbatim line.
\end{Verbatim}

\texttt{xrightmargin} (dimension) : right margin to add after each line (\textit{Default: 0pt} — no right margin).

\begin{Verbatim}[frame=single, xleftmargin=5mm]
Verbatim line.
Verbatim line.
\end{Verbatim}

\texttt{resetmargins} (boolean) : reset the left margin, which is useful if we are inside other indented environments (\textit{Default: false} — no reset of the margin).

\begin{itemize}
\item First item
\begin{Verbatim}[frame=single]
Verbatim line.
\end{Verbatim}
\item Second item
\begin{Verbatim}[frame=single, resetmargins=true]
Verbatim line.
\end{Verbatim}
\end{itemize}
4.1 Customization of verbatim environments

4.1.15 Overfull box messages

hfuzz (dimension) : value to give to the \texttt{\textbackslash hfuzz} dimension for text to format. This can be used to avoid seeing some unimportant Overfull box messages (Default: 2pt).

4.1.16 Page breaks

samepage (boolean) : in very special circumstances, we may want to make sure that a verbatim environment is not broken, even if it does not fit on the current page. To avoid a page break, we can set the samepage parameter to \texttt{true} (Default: false).

4.1.17 Catcode characters

codes (macro) : to specify \texttt{catcode} changes (Default: empty).

codes* (macro) : add to an existing definition.

For instance, this allows us to include formatted mathematics in verbatim text:

\begin{Verbatim}
\texttt{x=1/sqrt(z**2) ! \frac{1}{\sqrt{z^2}}} \\
\end{Verbatim}

With codes* we can add code to an already existing definition of codes:

\begin{Verbatim}
\fvset{codes={\catcode'$'=3\catcode'^'=7}} \\
\begin{Verbatim}
\texttt{x=1/sqrt(z**2) ! \frac{1}{\sqrt{z^2}}} \\
\end{Verbatim}
\end{Verbatim}

4.1.18 Active characters

defineactive (macro) : to define the effect of \texttt{active} characters (Default: empty).

defineactive* (macro) : add the definition to an existing one.

This allows us to do some devious tricks: see the example in Section 6 on page 23.
4.1.19 Reference label

relabel (<label>) : A label for use of \pageref.

\begin{Verbatim}[relabel=verb0]
First verbatim line.
Second verbatim line.
\end{Verbatim}

See the verbatim on page \pageref{verb0}.

4.2 Different kinds of verbatim environments

4.2.1 Verbatim environment

This is the ‘normal’ verbatim environment which we have been using up to now.

4.2.2 BVerbatim environment

This environment puts the verbatim material in a \TeX box. Some parameters do not work inside this environment (notably the framing ones), but two new ones are available:

boxwidth (auto|dimension) : size of the box used (Default: auto — the width of the longest line is used).

baseline (b|c|t) : position of the baseline (on the baseline, the center or the top of the box) (Default: b).

\begin{BVerbatim}
First
Second
\end{BVerbatim}

\begin{BVerbatim}[baseline=c]
First
Second
\end{BVerbatim}
4.2 Different kinds of verbatim environments

4.2.3 \texttt{LVerbatim} environment

This environment puts verbatim material into \LaTeX 'LR' mode (the so-called \textit{left-to-right} mode, which in fact is the same thing that \TeX itself calls \textit{restricted horizontal mode}).

4.2.4 Personalized environments

It is easy to define personal customized environments. You can redefine the existing ones using the \texttt{\RecustomVerbatimEnvironment} macro or create your own ones, using the \texttt{\DefineVerbatimEnvironment} macro\footnote{For verbatim commands, the \texttt{\CustomVerbatimCommand} and \texttt{\RecustomVerbatimCommand} macros also exist; for instance: \texttt{\RecustomVerbatimCommand{\VerbatimInput}{\VerbatimInput}{frame=lines}}}. In each case, you specify the name of the new environment, the type of environment on which it is based, and a set of initial option values. The options can be overridden with an optional argument in the normal way:

```latex
\begin{Verbatim}
First verbatim line.
Second verbatim line.
\end{Verbatim}
```
5 Saving and restoring verbatim text and environments

The \SaveVerb and \UseVerb macros allow us to save and restore verbatim material. \UseVerb itself is robust:

I have saved \texttt{\_verbatim\_} and reuse it later as many times as I want

\textbf{Using \_verbatim\_ \_verbatim\_.}

This also provides a solution to putting verbatim text inside \LaTeX\ commands which do not normally permit it:

\begin{verbatim}
\DefineShortVerb{\|}
\SaveVerb{Verb}|_verbatim_| \marginpar{\UseVerb{Verb}}
\end{verbatim}

There is a useful ability to use verbatim text as the item text in a description list (something not normally permitted in \LaTeX\), using the \texttt{aftersave} parameter:

\texttt{aftersave (macro) : macro to dynamically save some verbatim material (Default: empty).}
In the same way, we can use and restore (in normal, boxed and LR mode, using \UseVerbatim, \BUseVerbatim and \LUseVerbatim respectively) entire verbatim environments:

1. Verbatim line.

and

1. Verbatim line.

Ist
econd
d and econd.

1. Ist
econd

2. Ist
econd

and

1. Ist
econd

However, if I define a reusable Verbatim by \SaveVerbatim, linenumbers works.

\begin{SaveVerbatim}{FOO}
\begin{Verbatim}[numbers=left]
This works.
I use Verbatim directly.
\end{Verbatim}
\UseVerbatim[\begin{Verbatim}[numbers=left]
This works.
I use Verbatim directly.
\end{Verbatim}
\UseVerbatim[\begin{Verbatim}[numbers=left]{FOO}

\begin{SaveVerbatim}{VerbEnv}
Verbatim line.
\end{SaveVerbatim}
\UseVerbatim{VerbEnv}
and \UseVerbatim{VerbEnv}

\begin{SaveVerbatim}{gobble=5}{VerbEnv}
\begin{Verbatim}
First
Second
\end{Verbatim}
\end{SaveVerbatim}
\UseVerbatim{\begin{Verbatim}
First
Second
\end{Verbatim}}
and \UseVerbatim{\begin{Verbatim}
First
Second
\end{Verbatim}}

\fbox{\BUseVerbatim{VerbEnv}}
and \BUseVerbatim{VerbEnv}

\LUseVerbatim{VerbEnv} and
\LUseVerbatim{VerbEnv}

This works.
I use Verbatim directly.

\begin{SaveVerbatim}{FOO}
However, if I define a reusable Verbatim by \SaveVerbatim, linenumbers works.
\end{SaveVerbatim}

\begin{Verbatim}[numbers=left]
This works.
I use Verbatim directly.
\end{Verbatim}
\UseVerbatim[\begin{Verbatim}[numbers=left]
This works.
I use Verbatim directly.
\end{Verbatim}
\UseVerbatim[\begin{Verbatim}[numbers=left]{FOO}

MyCommand : my command

\newcommand{\Vitem}{%
\SaveVerb[afterstop={%}
\item{\UseVerb{\Vitem}}]{\Vitem}}
\DefineShortVerb{|}
\begin{description}
\item[\Vitem|MyCommand| : my command
\end{description}
6 Writing and reading verbatim files

The command `\VerbatimInput` (the variants `\BVerbatimInput` and `\LVerbatimInput` also exist) allows inclusion of the contents of a file with verbatim formatting. Of course, the various parameters which we have described for customizing can still be used:

```latex
\begin{verbatim}
! A "hello" program
program hello
 print *, "Hello world"
end program hello
\end{verbatim}
```

We can make use of the `defineactive` parameter to set the comment lines in the program text in a different style:

```latex
\begin{verbatim}
! A "hello" program
program hello
 print *, "Hello world"
end program hello
\end{verbatim}
```

It is important to note that if the contents of the file does not fit on the page, it will be automatically broken across pages as needed (unless the `samepage` parameter has been set to true).

There is also a `VerbatimOut` environment to write verbatim text to an output file, in the same way:
7 Automatic pretty printing

Obviously, automatic pretty printing is outside the scope of this package. Nevertheless, this is specially interesting for verbatim inclusion of programming code files or fragments. In the \LaTeX{} world (not speaking of the literate programming way), there are software for some special languages, as the 'C++2LaTeX' package from Norbert KIESEL, but mainly two generic ones, which use completely different modes (an external preprocessor written in C and a \LaTeX{} based solution): the 'LGrind' [3] system, currently maintained by Michael PIEFEL, and the 'listings' [4] package from Carsten HEINZ.

Future versions of 'fancyvrb' and 'listings' packages are planned to cooperate, which will offer great advantages to both users of the two actual packages, and will allow 'fancyvrb' users to have automatic pretty printing of programming codes.

8 Known problems

- Vladimir VOLOVICH <vvv@vvv.vsu.ru> reported that the special character \th, available with T1 encoding, can't be included as verbatim with 'fancyvrb'. It can be true for other special characters too.

9 Conclusion

There are a few other possibilities that we have not described here. Note specially that it is possible to define a customization file (fancyvrb.cfg) loaded at the end of the package, to store definitions of your customized commands and environments and to redefine the attributes of existing ones.
Part II

Package fancyvrb-ex

This package defines some example environments which can write input code and output side by side or on top of each other. They are all used for this documentation of fancyvrb.

10 Example environment

```latex
\begin{Example}
First verbatim line.
Second verbatim line.
Third verbatim line.
\end{Example}
```

First verbatim line. Second verbatim line. Third verbatim line.

```latex
\begin{Example}[frame=lines,framerule=1mm,
    numbers=left]
First verbatim line.
Second verbatim line.
Third verbatim line.
\end{Example}
```

First verbatim line. Second verbatim line. Third verbatim line.
11 CenterExample environment

\begin{CenterExample}[frame=single, numbers=right]
  First verbatim line.
  Second verbatim line.
  Third verbatim line.
\end{CenterExample}

First verbatim line. Second verbatim line. Third verbatim line.

12 SideBySideExample environment

\begin{SideBySideExample}[xrightmargin=5cm, frame=lines, numbers=left]
  First verbatim line.
  Second verbatim line.
  Third verbatim line.
\end{SideBySideExample}

First verbatim line. Second verbatim line. Third verbatim line.

References


